

AMENDMENTS TO THE SPECIFICATION:

Page 1, amend the paragraph beginning at line 8 as follows:

The use of metallic wire polarising grid mirrors as focusing elements in millimetre wavelength imaging systems is known, see for example our co-pending PCT national phase patent application serial number ~~PCT/GB02/00745~~ 10/467,798. Referring now to Figure 1, a millimetre wavelength imaging system 100 of the prior art comprises a curved polarising grid 102 which allows radiation 104 of a specific polarisation to pass therethrough whilst reflecting radiation of other polarisations. A small portion, typically <10%, of the radiation 104a is incident upon feed horn apertures 106 of a receiver array 108. However, this small portion of the radiation is wasted as it is unfocused and of the wrong polarisation to be received. The remainder of the radiation 104b passes through a polarisation twisting device 107, typically a quarter wave plate or Ferrite, and is reflected from an aspherical rotating mirror 110. The grid 102 reflects radiation of polarisation twisted by 90° 104c to a focal point at the position of the feed horn apertures 106.